

PROJECT DESCRIPTION

GENERAL  
THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 202 (LANDOVER ROAD) AND BARLOWE ROAD IN PRINCE GEORGE'S COUNTY, MARYLAND. MD 202 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION  
THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 202 APPROACHES OPERATING CONCURRENTLY AND THE BARLOWE ROAD APPROACH OPERATING ALONE.  
EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR EASTBOUND AND WESTBOUND MD 202 APPROACHES.  
AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE EAST LEG OF MD 202 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS BARLOWE ROAD.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS  
1. LANDOVER ROAD AND BARLOWE ROAD - EAST LEG  
TYPICAL INTERSECTION, STREETS AT 90 DEGREES  
WAIT: "WAIT TO CROSS LANDOVER AT BARLOWE" \*  
WALK: RAPID TICK  
2. LANDOVER ROAD AND BARLOWE ROAD - SOUTH LEG  
TYPICAL INTERSECTION, STREETS AT 90 DEGREES  
WAIT: "WAIT TO CROSS BARLOWE AT LANDOVER" \*  
WALK: RAPID TICK  
\* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'  
\*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC  
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS  
INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH TWO (2) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS WITH SYSTEM PACKAGE, VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS) AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.  
PHONE DROP  
UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC  
THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.  
STANDARD NO. MD-104.04-01 (SHOULDER WORK)      STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)  
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)  
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)  
STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)

EQUIPMENT LIST "A"  
A. EQUIPMENT TO BE SUPPLIED BY THE SHA  
ITEM NO.      QUANTITY      DESCRIPTION  
9016      2 EACH      FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER  
9044      1 EACH      EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET  
9086      1 EACH      VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS  
9571      80 S.F.      SHEET ALUMINUM SIGNS TO CONSIST OF :  
- 3 EACH      D-3(1) SIGN (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT  
- 2 EACH      R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS LANDOVER ROAD"  
- 2 EACH      R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS BARLOWE ROAD"  
- 2 EACH      W11-2 SIGN (30" X 30") B / FYG AND W16-7p SIGN (24" X 12") B / FYG. - GROUND MOUNT  
- 2 EACH      W11-2 SIGN (30" X 30") B / FYG AND W16-9p SIGN (30" X 12") B / FYG. - GROUND MOUNT  
- 1 EACH      R4-7 SIGN (24" X 30") - GROUND MOUNT  
  
\*SPECIAL NOTE  
"U-TURN" SIGNAL LENSES TO BE PROVIDED BY SHA SIGNAL OPERATIONS. CONTACT MR. ED RODENHIZER @ 410-787-7650 TO ARRANGE PICK UP  
  
EQUIPMENT TO BE SUPPLIED BY THE SHA  
QUANTITY      DESCRIPTION  
2 EACH      12" GREEN "U-TURN" LENS FOR LED SIGN HEAD  
2 EACH      12" YELLOW "U-TURN" LENS FOR LED SIGN HEAD

EQUIPMENT LIST "C"  
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS  
THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:  
MR. BRIAN YOUNG  
PHONE: (301) 513-7404  
ASSISTANT DISTRICT ENGINEER - TRAFFIC (PRINCE GEORGE'S)  
MR. WAYNE MOWDY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301) 513-7304  
MR. AUGIE REBISH  
DISTRICT UTILITY ENGINEER  
PHONE: (301) 513-7350  
MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

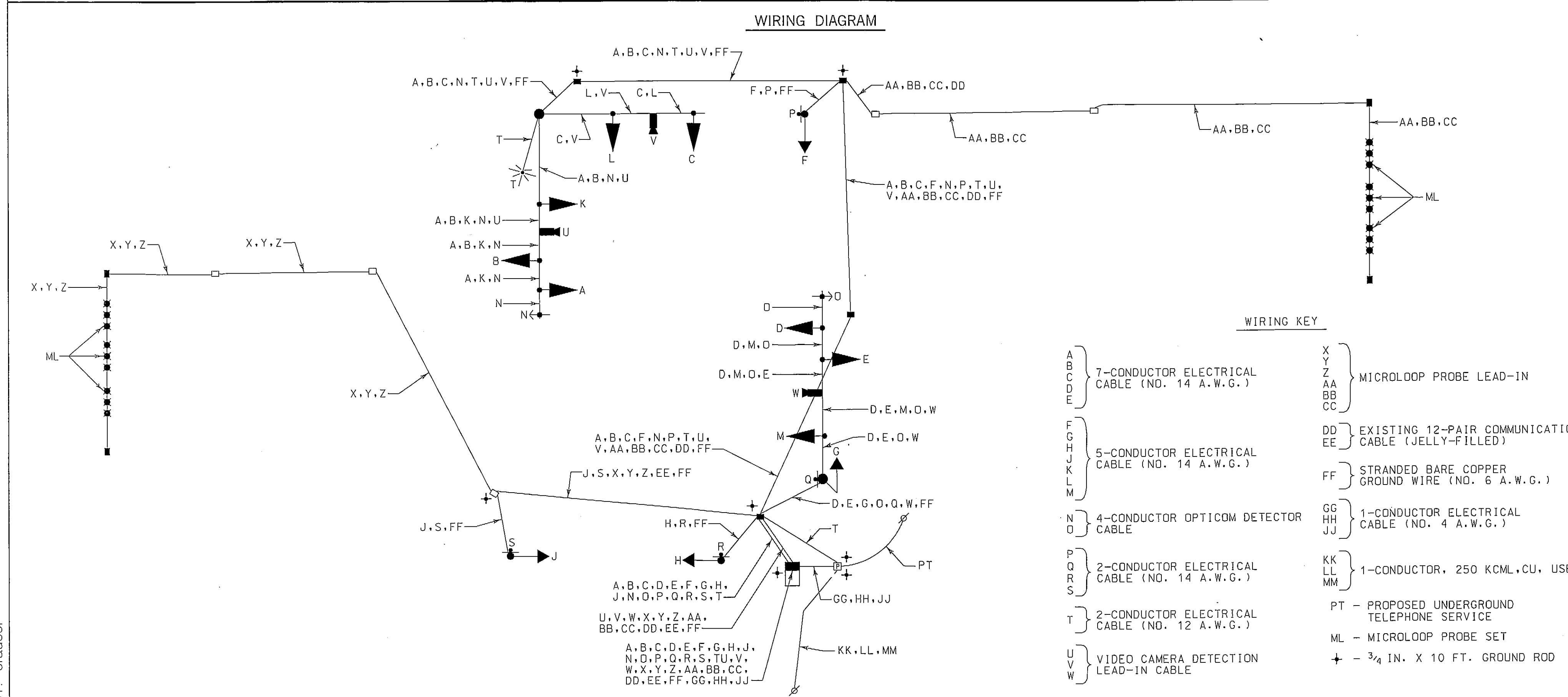
EQUIPMENT LIST "B"  
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR  
ITEM NO.      QUANTITY      DESCRIPTION  
1003      3 EACH      MAINTENANCE OF TRAFFIC  
2001      8 C.Y.      CLASS 2 EXCAVATION  
2002      7 C.Y.      TEST PIT EXCAVATION  
5003      930 L.F.      REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH  
5004      290 L.F.      12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS  
5005      80 L.F.      24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS  
6001      15 L.F.      STANDARD TYPE A COMBINATION CURB AND CUTTER 12 INCH GUTTER PAN 8 INCH DEPTH  
6002      725 S.F.      4 INCH CONCRETE SIDEWALK  
6003      43 S.F.      DETECTABLE WARNING SURFACES  
8001      1 EACH      2 WIRE CENTRAL CONTROL UNIT  
8003      6 EACH      8 INCH LED SIGNAL HEAD SECTION  
8006      1 EACH      ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE  
8007      4 EACH      AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS  
8008      3' EACH      BREAKAWAY PEDESTAL POLE (ANY SIZE)  
8013      4 EACH      LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS  
8018      1 EACH      MAST ARM POLE & 50 FT MAST ARM ANY 'T' DIMENSION  
8020      6 EACH      NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT  
8021      1 EACH      REM & DISPOSE MAT & EQUIP PER ASSIGN  
8022      1 EACH      TWIN MAST ARM POLE & 50 FT/60 FT MAST ARMS ANY 'T' DIMENSION  
8025      3 EACH      VIDEO DETECTION CAMERA & CABLE UP TO 500 FT  
8029      405 L.F.      ELECTRICAL CABLE 1-CONDUCTOR, 250 KCML, USE  
8030      330 L.F.      DISCONNECT, PULL-BACK & REROUTE CABLES  
8032      260 L.F.      SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED  
8034      575 L.F.      SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED  
8035      83 L.F.      WOOD SIGN SUPPORTS UP TO 4 X 6  
8036      87 S.F.      INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)  
8038      415 L.F.      NO. 6 AWG STRANDED BARE COPPER GROUND WIRE  
8041      1 EACH      METERED SERVICE PEDESTAL EMBEDDED  
8043      70 L.F.      ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN  
8045      8 EACH      FURNISH AND INSTALL ELECTRICAL HANDHOLE  
8046      1 EACH      DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764  
8048      2 EACH      OPTICOM NO. 721 DETECTOR EYE  
8050      26 EACH      12 INCH LED SIGNAL HEAD SECTION  
8051      485 L.F.      FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE  
8052      2 EACH      CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE  
8054      70 L.F.      ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)  
8056      495 L.F.      ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)  
8057      1200 L.F.      ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)  
8058      305 L.F.      ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC  
8065      1 EACH      INSTALL CONTROLLER AND CABINET - BASE MOUNT

TOD NO:XX445-13  
SHA NO:PG719A57/B57  
MD 202@ BARLOWE RD

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 202 (Landover Road) and Barlowe Road

GENERAL INFORMATION SHEET  
SCALE NONE      DATE January 8, 2009      CONTRACT NO. XX4455185  
DESIGNED BY S. Bloss      COUNTY Prince George's  
DRAWN BY S. Bloss      LOGMILE 16020210.35  
CHECKED BY N. Leary      TMS NO. H642  
FAP NO.      TOD NO.  
TS NO. 576 D      DRAWING TSP-2 OF 3      SHEET NO. 3 OF 3

WR&A  
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